CLAIMS

1. An implantable sensor comprising:

a biosensor;

an integrated circuit operatively coupled with the biosensor to operate and receive data from the biosensor; and

a power receiver operatively coupled with the integrated circuit and configured to rectify RF energy incident on the implantable senor into DC power deliverable to the biosensor and the integrated circuit.

- 2. The implantable sensor of claim 1, further comprising:
 an antenna coupled to the integrated circuit wherein the integrated
 circuit modulates data output from the biosensor into a signal and transmits
 the signal through the antenna.
- 3. The implantable sensor of claim 2, further comprising:
 an external interrogator physically remote from the biosensor and
 integrated circuit, wherein the interrogator includes an RF power source for
 transmitting the RF energy to the integrated circuit and the biosensor.
- 4. The implantable sensor of claim 3, wherein the external interrogator includes a data acquisition module for receiving the modulated signal transmitted from the integrated circuit.
- 5. The implantable sensor of claim 1, wherein the biosensor is a glucose sensor.
- 6. The implantable sensor of claim 1, wherein the biosensor measures partial pressure of oxygen.

- 7. The implantable sensor of claim 1, wherein the biosensor measures pH.
- 8. The implantable sensor of claim 1, wherein the biosensor measures lactate.
- 9. The implantable sensor of claim 1, wherein the biosensor measures potassium.
- 10. The implantable sensor of claim 1, wherein the biosensor detects the presence of a protein.
- 11. An implantable sensor comprising: a biosensor; means for controlling the biosensor; and means for receiving RF energy from an external source, converting the energy to DC power, and powering the implantable sensor.
- 12. A method comprising:

injecting a capsule containing an un-powered biosensor subcutaneously into tissue;

placing an interrogator adjacent the tissue;
transmitting RF energy towards the capsule;
converting the RF energy into a DC power source within the capsule;
and

utilizing the DC power source to power biosensor.

13. The method of claim 12, further comprising:transmitting data from the capsule to the interrogator.

- 14. The method of claim 13, further comprising modulating the data within the capsule prior to transmitting.
- 15. The method of claim 12, wherein injecting the capsule include inserting the capsule into a syringe and delivering the capsule through the syringe.
- 16. The method of claim 12, wherein injecting includes delivering the capsule into a coronary sinus of a heart.
- 17. The method of claim 12, wherein injecting includes delivering the capsule into a right ventricle of a heart